

PATENT COOPERATION TREATY

From the RECEIVING OFFICE

**Spruson & Ferguson Pte Ltd
51 Bras Basah Road
#02-03 Plaza By The Park
Singapore 189554
Republic of Singapore**

PCT

NOTIFICATION OF THE INTERNATIONAL
APPLICATION NUMBER AND OF THE
INTERNATIONAL FILING DATE

(PCT Rule 20.5 (c))

Date of mailing 12-Jan-00 (12/01/2000)
(day/month/year)

Applicant's or agent's file reference
SG467817

IMPORTANT NOTIFICATION

International application No PCT/SG99/00142	International filing date (day/month/year) 16 December 1999 (16/12/99)	Priority date (day/month/year)
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Applicant
Kent Ridge Digital Labs

SYSTEM AND METHOD FOR VIDEO PRODUCTION

1. The applicant is hereby notified that the international application has been accorded the international application number and the international filing date indicated above.
2. The applicant is further notified that the record copy of the international application:

X was transmitted to the International Bureau on: 16 December 1999 (16/12/99)

has not yet been transmitted to the International Bureau for the reason indicated below and a copy of this notification has been sent to the International Bureau* :

because the necessary national security clearance has not yet been obtained.

because (*reason to be specified*)

- * The International Bureau monitors the transmittal of the record copy by the receiving Office and will notify the applicant (with Form PCT/IB/301) of its receipt. Should the record copy not have been received by the expiration of the 14 months from the priority date, the International Bureau will notify the applicant (Rule 22.1(c))

Name and mailing address of the receiving Office
REGISTRY OF PATENTS
51 Bras Bash Road #04-01
Plaza By The Park
Singapore 189554

Authorized officer

GOH, KOON HONG (MR)

Telephone No. 3302751

PATENT COOPERATION TREATY

RECEIVED
22 MAY 2002From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:
**ELLA CHEONG MIRANDAH & SPRUSONS
PTE LTD
ROBINSON ROAD POST OFFICE
P.O. Box 1531
SINGAPORE 903031
REPUBLIC OF SINGAPORE**

BY:
PCTNOTIFICATION OF TRANSMITTAL OF
INTERNATIONAL PRELIMINARY
EXAMINATION REPORT

(PCT Rule 71.1)

Date of mailing
(day/month/year) 21 May 2002 (21.05.02)

Applicant's or agent's file reference SG4678176 SG467817C	IMPORTANT NOTIFICATION	
International application No. PCT/ SG 99/00142	International filing date (day/month/year) 16 December 1999 (16.12.99)	Priority Date (day/month/year)
Applicant Kent Ridge Digital Labs et al.		

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/AT Austrian Patent Office Kohlmarkt 8-10 A-1014 Vienna Facsimile No. 1/53424/200	Authorized officer Wolf Telephone No. +43 / 1 / 53424 - 450
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PATENT COOPERATION TREATY

PCT

RECEIVED
22 MAY 2002

BY:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference SG4678176	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/SG 99/00142	International filing date (day/month/year) 16 December 1999 (16.12.1999)	Priority Date (day/month/year)
International Patent Classification (IPC) or national classification and IPC IPC⁷: H04N 5/262; G11B 27/031		
Applicant Kent Ridge Digital Labs et al.		
<p>1. This international preliminary examination report has been prepared by this International Preliminary Examination Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.</p> <p><input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of _____ sheets.</p>		
<p>3. This report contains indications relating to the following items:</p> <ul style="list-style-type: none"> I. <input checked="" type="checkbox"/> Basis of the opinion II. <input type="checkbox"/> Priority III. <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV. <input type="checkbox"/> Lack of unity of invention V. <input checked="" type="checkbox"/> Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI. <input type="checkbox"/> Certain documents cited VII. <input type="checkbox"/> Certain defects in the international application VIII. <input type="checkbox"/> Certain observations on the international application 		

Date of submission of the demand 13 July 2001 (13.07.2001)	Date of completion of this report 9 April 2002 (09.04.2002)
Name and mailing address of the IPEA/AT Austrian Patent Office Kohlmarkt 8-10 A-1014 Vienna Facsimile No. 1/53424/200	Authorized officer FUSSY Telephone No. 1/53424/328

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/SG 99/00142

I. Basis of the report

1. With regard to the elements of the international application:*

the international application as originally filed

the description:
pages 1-11, 13-16, 18-22, 24-36, as originally filed
pages _____, filed with the demand
pages 12, 17, 23, filed with the letter of 6 March 2000 (06.03.2000).

the claims:
pages 37-57, as originally filed
pages _____, as amended (together with any statement) under Article 19
pages _____, filed with the demand
pages _____, filed with the letter of _____.

the drawings:
pages 6-17, as originally filed
pages _____, filed with the demand
pages 1-5, filed with the letter of 8 April 2000 (08.04.2000).

the sequence listing part of the description:
pages _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____.

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).

the language of publication of the international application (under Rule 48.3(b)).

the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

contained in the international application in printed form.

filed together with the international application in computer readable form.

furnished subsequently to this Authority in written form.

furnished subsequently to this Authority in computer readable form.

The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

the description, pages _____

the claims, Nos. _____

the drawings, sheets/fig _____

5. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as „originally filed“ and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/SG 99/00142

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims 1-99	YES
	Claims	NO
Inventive step (IS)	Claims 1-99	YES
	Claims	NO
Industrial applicability (IA)	Claims 1-99	YES
	Claims	NO

Citations and explanations (Rule 70.7)

The following documents have been cited in the Search Report:

D1: GB2329812A
D2: US4780709A

D1 represents the prior art coming closest to the subject-matter of the independent claims 1, 24, 47, 70, 80 and 90 of the present application and relates to a configurable user interface (GUI) to audio/video (A/V) data. A data descriptor engine is coupled to the A/V file system containing the A/V data. A type of user interfacing to the GUI is identified. A display generator accesses the A/V file system and generates a display of the A/V data dependent upon the type of user. A menu constructor generates user selectable options/features to be displayed in the GUI, the options/features displayed dependent upon the type of user. A manipulation engine receives user input and determines operations to be performed, the determination based upon the type of user.

However, neither a descriptor initiator where at least one value for a corresponding video segment is ascribed to a created descriptor, nor a video constructor for assembling an output video construction from at least two video segments according to said values of said descriptors are disclosed in D1.

D2 discloses only a display and no editing management system utilizing a display processor which employs a plurality of pointers and descriptors to allow data to be read from window buffers directly onto a visual display without first compiling a bit map frame buffer. The screen is divided into a plurality of horizontal strips which may be a single pixel in width. Each horizontal strip is divided into one or more rectangular tiles. These tiles and horizontal strips are combined to form viewing windows. The individual strips are defined by descriptors in a memory. The descriptors are updated only when the viewing windows on the display are changed. During generation of the display, the

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/SG 99/00142

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Box V (page 1)

display processor reads the descriptors and fetches and displays the data in each tile without the need to store it intermediately in bit map form.

Again, neither a descriptor initiator where at least one value for a corresponding video segment is ascribed to a created descriptor, nor a video constructor for assembling an output video construction from at least two video segments according to said values of said descriptors are disclosed in D2.

The remaining claims 2 to 23, 25 to 46, 48 to 69, 71 to 79, 81 to 89, and 91 to 99 of the present application specify preferred embodiments of the subject-matter of the independent claims 1, 24, 47, 70, 80 and 90 of the present application.

Summarizing, all of the above cited documents merely define the state of the art. Therefore, the subject-matter of claims 1 to 99 can be considered novel and involving an inventive step. The industrial applicability is given, too.

PCT

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only

International Application No.

International Filing Date

Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference
(if desired) (12 characters maximum)

SG467817

Box No. I TITLE OF INVENTION

SYSTEM AND METHOD FOR VIDEO PRODUCTION

Box No. II APPLICANT

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

Kent Ridge Digital Labs
21 Heng Mui Keng Terrace
Singapore 119613
Republic of Singapore

This person is also inventor.

Telephone No.
+65 874 7588

Facsimile No.

Teleprinter No.

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box

Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

Peter Rowan KELLOCK
113 Clementi Road, Block D
Kent Vale, #09-06
Singapore 129793

This person is:

applicant only

applicant and inventor

inventor only (If this check-box is marked, do not fill in below.)

State (that is, country) of nationality:
UNITED KINGDOM (GB)

State (that is, country) of residence:
SINGAPORE

This person is applicant all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box

Further applicants and/or (further) inventors are indicated on a continuation sheet.

Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE

The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: agent common representative

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

Spruson&Ferguson Pte Ltd
51 Bras Basah Road
#02-03 Plaza By The Park
Singapore 189554
Republic of Singapore

Telephone No.

+65 336 9715

Facsimile No.

+65 336 9716

Teleprinter No.

Address for correspondence Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

If none of the following sub-boxes is used, this sheet should not be included in the request.

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

Sriku^m Karaikudi SUBRAMANIAM
Block 311, Clementi Avenue 4
#10-259
Singapore 120311

This person is:

 applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)State (that is, country) of nationality:
INDIA (IN)State (that is, country) of residence:
SINGAPORE

This person is applicant all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

Ramanath PADMANABHAN
Block 506, West Coast Drive
#08-219
Singapore 120506

This person is:

 applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)State (that is, country) of nationality:
INDIA (IN)State (that is, country) of residence:
SINGAPORE

This person is applicant all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

GOH Liang Kee
Block 22, Dover Crescent
#09-350
Singapore 130022

This person is:

 applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)State (that is, country) of nationality:
SINGAPORE (SG)State (that is, country) of residence:
SINGAPORE

This person is applicant all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

This person is:

 applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box

 Further applicants and/or (further) inventors are indicated on another continuation sheet.

Box No.V DESIGNATION OF STATES

The following designations are hereby made under Rule 4.9 (mark the applicable check-boxes, at least one must be marked)

Regional Patent

AP ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, SD Sudan, SL Sierra Leone, SZ Swaziland, UG Uganda, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT

EA Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT

EP European Patent: AT Austria, BE Belgium, CH Switzerland and Liechtenstein, CY Cyprus, DE Germany, DK Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, and any other State which is a Contracting State of the European Patent Convention and of the PCT

OA OAPI Patent: BB Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the *(if other kind of protection or treatment desired, specify on dotted line)*

National Patent *(if other kind of protection or treatment desired, specify on dotted line)*:

<input type="checkbox"/> AE United Arab Emirates	<input type="checkbox"/> LR Liberia
<input type="checkbox"/> AL Albania	<input type="checkbox"/> LS Lesotho
<input type="checkbox"/> AM Armenia	<input type="checkbox"/> LT Lithuania
<input type="checkbox"/> AT Austria	<input type="checkbox"/> LU Luxembourg
<input type="checkbox"/> AU Australia	<input type="checkbox"/> LV Latvia
<input type="checkbox"/> AZ Azerbaijan	<input type="checkbox"/> MD Republic of Moldova
<input type="checkbox"/> BA Bosnia and Herzegovina	<input type="checkbox"/> MG Madagascar
<input type="checkbox"/> BB Barbados	<input type="checkbox"/> MK The former Yugoslav Republic of Macedonia
<input type="checkbox"/> BG Bulgaria	<input type="checkbox"/> MN Mongolia
<input type="checkbox"/> BR Brazil	<input type="checkbox"/> MW Malawi
<input type="checkbox"/> BY Belarus	<input type="checkbox"/> MX Mexico
<input type="checkbox"/> CA Canada	<input type="checkbox"/> NO Norway
<input type="checkbox"/> CH and LI Switzerland and Liechtenstein	<input type="checkbox"/> NZ New Zealand
<input type="checkbox"/> CN China	<input type="checkbox"/> PL Poland
<input type="checkbox"/> CU Cuba	<input type="checkbox"/> PT Portugal
<input type="checkbox"/> CZ Czech Republic	<input type="checkbox"/> RO Romania
<input type="checkbox"/> DE Germany	<input type="checkbox"/> RU Russian Federation
<input type="checkbox"/> DK Denmark	<input type="checkbox"/> SD Sudan
<input type="checkbox"/> EE Estonia	<input type="checkbox"/> SE Sweden
<input type="checkbox"/> ES Spain	<input checked="" type="checkbox"/> SG Singapore
<input type="checkbox"/> FI Finland	<input type="checkbox"/> SI Slovenia
<input type="checkbox"/> GB United Kingdom	<input type="checkbox"/> SK Slovakia
<input type="checkbox"/> GD Grenada	<input type="checkbox"/> SL Sierra Leone
<input type="checkbox"/> GE Georgia	<input type="checkbox"/> TJ Tajikistan
<input type="checkbox"/> GH Ghana	<input type="checkbox"/> TM Turkmenistan
<input type="checkbox"/> GM Gambia	<input type="checkbox"/> TR Turkey
<input type="checkbox"/> HR Croatia	<input type="checkbox"/> TT Trinidad and Tobago
<input type="checkbox"/> HU Hungary	<input type="checkbox"/> UA Ukraine
<input type="checkbox"/> ID Indonesia	<input type="checkbox"/> UG Uganda
<input type="checkbox"/> IL Israel	<input checked="" type="checkbox"/> US United States of America
<input type="checkbox"/> IN India	<input type="checkbox"/> UZ Uzbekistan
<input type="checkbox"/> IS Iceland	<input type="checkbox"/> VN Viet Nam
<input checked="" type="checkbox"/> JP Japan	<input type="checkbox"/> YU Yugoslavia
<input type="checkbox"/> KE Kenya	<input type="checkbox"/> ZA South Africa
<input type="checkbox"/> KG Kyrgyzstan	<input type="checkbox"/> ZW Zimbabwe
<input type="checkbox"/> KP Democratic People's Republic of Korea	Check-boxes reserved for designating States which have become party to the PCT after issuance of this sheet:
<input type="checkbox"/> KR Republic of Korea	<input type="checkbox"/>
<input type="checkbox"/> KZ Kazakhstan	<input type="checkbox"/>
<input type="checkbox"/> LC Saint Lucia	<input type="checkbox"/>
<input type="checkbox"/> LK Sri Lanka	<input type="checkbox"/>

Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being ~~excluded~~ from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and the designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn. The applicant at the expiration of that time limit *(Confirmation of a designation consists of the filing of a notice specifying that designation and the payment of the designation and confirmation fees. Confirmation must reach the receiving Office within the 15-month time limit)*

Box No. VI PRIORITY CLAIM

 Further priority claims are indicated in the Supplemental Box

Filing date of earlier application (day/month/year)	Number of earlier application	Where earlier application is		
		national application country	regional application* regional Office	international application receiving Office
item (1)				
item (2)				
item (3)				

The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of the present international application is the receiving Office) identified above as item(s).

* Where the earlier application is an ARIPO application, it is mandatory to indicate in the Supplemental Box at least one country party to the Paris Convention for the Protection of Industrial Property for which that earlier application was filed (Rule 4.10(b)(ii)). See Supplemental Box.

Box No. VII INTERNATIONAL SEARCHING AUTHORITY

Choice of International Searching Authority (ISA): Request to use results of earlier search; reference to that (if earlier search has been carried out by or requested from the International Searching Authority):

Date (day/month/year) Number Country (or regional Office)

ISA /AT

Box No. VIII CHECK LIST; LANGUAGE OF FILING

This international application contains the following number of sheets

request	4
description (excluding sequence listing part)	36
claims	21
abstract	1
drawings	17
sequence listing part of description	0
Total number of sheets	49

This international application is accompanied by the item(s) marked below:

1. fee calculation sheet
2. separate signed power of attorney
3. copy of general power of attorney, reference number, if any
4. statement explaining lack of signature
5. priority document(s) identified in Box No. VI as item(s)
6. translation of international application into (language)
7. separate indications concerning deposited microorganism or other biological material
8. nucleotide and/or amino acid sequence listing in computer readable form
9. other (specify):

Figure of the drawings which should accompany the abstract: 1a Language of filing of the international application: ENGLISH

Box No. IX SIGNATURE OF APPLICANT OR AGENT

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).

Scott D. Berggren
Manager
Spruson&Ferguson Pte Ltd

For receiving Office use only

1. Date of actual receipt of the purported international application:	2. Drawings:
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:	<input type="checkbox"/> received: <input type="checkbox"/> not received:
4. Date of timely receipt of the required corrections under PCT Article 11(2):	
5. International Searching Authority (ISA / (if two or more are competent))	6. <input type="checkbox"/> Transmittal of search copy delayed until search fee is paid.

For International Bureau use only

Date of receipt of the record copy by the International Bureau: